the pond lies in a belt of more or less similar country which apparently extends along the western border of Rhode Island all the way from Westerly to a point near Webster, Massachusetts. Any part of it is likely to repay exploration.

East Hartford, Connecticut.

## BROMELICA (THURBER): A NEW GENUS OF GRASSES.

### OLIVER ATKINS FARWELL.

For some years past our eastern species of Oat Grass have been bandied about between Avena and Melica, affording for some a merry game of shuttlecock. These species appear to have no permanent home and to be a restless group, that, like Banquo's Ghost, will not down. It seems best, therefore, to create a new genus for them. At least one of that small group of grasses, to which belong our eastern Oat Grasses, has been included at one time or another in five different genera, Festuca, Bromus, Melica, Avena and Trisetum. As regards our eastern species Michaux first described Avena striata in 1803; Torrey next described it as Trisetum purpurascens; A. Gray replaced it in Avena using Michaux's name; Hitchcock then removed it to Melica as M. striata; finally Nash restored it to Avena as A. Torreyi. The second species was described by Porter in 1867 as Avena Smithii and it was removed to Melica by Vasey in 1888. At the present time Hitchcock, in Gray's Manual, lists these species under Melica; Britton & Brown in the Illustrated Flora list them under Avena; Rydberg in the Flora of the Rocky Mountains steers an intermediate course listing the first under Avena and the second under Melica. When authors are at such wide variance with each other in their treatment of such closely related species, the probabilities are that the species do not belong to any one of the genera to which they have been referred. A careful analysis of the distinguishing characters of each genus bears out this supposition.

These species can scarcely belong to Avena since they lack the most important tribal characters distinctive of the Aveneae, viz.: the spine-like end of the rachilla prolonged behind the uppermost floret and glumes longer than the lower floret. They do agree with the Festuceae

in not possessing the spine-like elongation of the rachilla and in having glumes shorter than the lower floret. A genus of the Festuceae must then be sought for these species and amongst those genera having many nerved lemmas. They do not belong to Festuca because the lemmas are not entire. They do not belong to Bromus because the grain is not adherent to the palet nor pubescent at the summit. They do not belong to Melica because the lemmas are not subcoriaceous and the uppermost do not form a convolute club-shaped mass but are distinct. In Bromelica the glumes and lemmas are membranous, the former being somewhat unequal and shorter than the lowest floret; the latter are acute, notched or bidentate, generally with a terminal awn formed by the excurrent midrib between the teeth, the uppermost being similar to the others and distinct, the uppermost floret consisting of a single lemma only. Thus delimited, Melica and Bromelica consist, each of a clear, homogeneous group of species; united, Melica is a heterogeneous group. Bromelica is almost exactly intermediate between Melica and Bromus, with closer relationship to the latter than to the former, which is exemplified by habit and by the characters of the glumes and lemmas; if Bromelica is retained in Melica there is no good reason why Melica in its entirety should not be united with Bromus.

Lemmas membranous, all alike and distinct, acute, awned or awnless.
Lemmas entire
Lemmas notched or bidentate.
Grain adherent to the palet and pubescent at apex
Grain free, not pubescent
Lemmas subcoriaceous, obtuse, convolute around each other and forming a
club-shaped mass

The synonymy and species follow:

**BROMELICA** (Thurber), n. gen. *Melica* subgenus *Bromelica* Thurber, Bot. Calif. ii. 304 (1880), and in Gray's Manual, ed. 6, 152 (1908).

B. striata (Mx.), n. comb. Avena striata Mx. Fl. Bor. Am. i. 73 (1803). Trisetum purpurascens Torr. Fl. U. S. 127 (1824). Melica striata (Mx.) Hitche. Rhodora, viii. 211 (1906). Avena Torreyi Nash in Britt. & Br. Illus. Fl. ed. 2, i. 219 (1913).

B. Smithii (Porter), n. comb. Avena Smithii Porter in Gray's Manual, ed. 5, 640 (1867). Melica Smithii (Porter) Vasey, Bull.

Torr. Cl. xv. 294 (1888).

B. aristata (Thurber), n. comb. Melica aristata Thurber in Boland. Proc. Cal. Acad. iv. 103 (1870).

B. subulata (Bong.), n. comb. Festuca subulata Bong. Veg. Sitch.
173 (1832). Bromus subulatus Griseb. in Ledeb. Fl. Ross. iv. 358 (1853). Melica acuminata Boland. Proc. Cal. Acad. iv. 104 (1870).
M. subulata Scribn. Proc. Acad. Phila. 47 (1885).

B. Harfordii (Boland.), n. comb. Melica Harfordii Boland. Proc.

Cal. Acad. 47 (1885).

B. Harfordii, var. minor (Vasey), n. comb. Melica Harfordii, var. minor Vasey, Bull. Torr. Cl. xv. 48 (1888). M. Harfordii, subsp. tenuior Piper, Cont. U. S. Nat. Herb. xi. 127 (1906).

B. Geyeri (Munro). n. comb. Melica Geyeri Munro in Boland. Proc. Cal. Acad. iv. 103 (1870). M. bromoides Boland. ex A. Gray,

Proc. Am. Acad. viii. 409 (1872).

B. Geyeri, var. **Howellii** (Scribn.), n. comb. *Melica bromoides*, var. *Howellii* Scribn. Proc. Acad. Philad. 47 (1885).

DEPARTMENT OF BOTANY, PARKE, DAVIS & Co., Detroit, Michigan.

# REPORTS ON THE FLORA OF THE BOSTON DISTRICT,—XXX.

#### LINACEAE.

### LINUM.

L. medium (Planch.) Britton. Dry soil, ten scattered stations, none in Essex county.

L. striatum Walt. Rock Pond, Georgetown (Mrs. C. N. S. Horner, no date); Cedar Swamp, Peabody (J. H. Sears, July 12, 1887); Essex Woods (J. H. Sears & J. Robinson, September, 1880); old railway track under Elm St., Dedham (K. M. Wiegand & Margaret Heatley, July 23, 1908).

L. sulcatum Riddell. Middlesex Fells (F. S. Collins, Aug. 8, 1885); roadside, Winchester (W. Boott, Sept. 13, 1868; C. W. Jenks & C. W. Swan, July 19, 1890); Boston (F. Boott, —, 1822).

L. USITATISSIMUM L. Roadsides and waste places, frequent.

L. virginianum L. Dry gravelly and sandy soil; well distributed, especially southward.